

DEPOSITIONS OF PARASITIC HYMENOPTERA (INSECTA) TYPES FROM THE UNIVERSITY OF CALIFORNIA, BERKELEY¹

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Abstract. — In 1993, 71 hymenopteran type specimens from the University of California, Berkeley's Essig Museum were deposited in four other institutions: the California Academy of Sciences (San Francisco, California), the Queensland Museum (Brisbane, Australia), the Plant Protection Research Institute (Pretoria, South Africa) and the U.S. National Museum (Washington, D.C.). The specimens are Braconidae, Ichneumonidae, Scelionidae, Eucilidae, Perilampidae, Encyrtidae, Aphelinidae, Eulophidae, Trichogrammatidae, Mymaridae and Bethyidae, and represent 54 holotypes, 12 allotypes and 5 syntypes. The three holotype specimens of *Bactropria brasiliensis* Kieffer, *Xyalopria ruficornis* Kieffer and *Ganaspis reclusa* Kieffer are reported missing.

Key Words. — Insecta, Hymenoptera, Parasitica, type specimens, depositions

The collection of parasitic Hymenoptera at the Laboratory of Biological Control, University of California at Berkeley, was started in 1946 by R. L. Doutt. This collection is part of U.C. Berkeley's Essig Museum (formerly the California Insect Survey), but is housed separately at the Gill Tract in Albany, California. The Essig Museum has a standing policy of depositing type material, belonging to Hymenoptera and certain other taxa, in the California Academy of Science in San Francisco, California, on indefinite loan.

Since 1947, a number of type specimens have accumulated at the Gill Tract. These specimens fall into three categories: those that were specifically designated for deposition at U.C. Berkeley, those designated for deposition at other institutions (either in their published descriptions or as notations attached to the specimens) but were never transferred for various reasons, and those with no specific instructions for deposition.

In 1993, an effort was made to rectify this situation. All the type specimens in hand at the Gill Tract (54 holotypes, 12 allotypes and 5 syntypes) were transferred (type specimens then on temporary loan to other workers were retained). As per their specifications, ten specimens were deposited in the Plant Protection Research Institute (Pretoria, South Africa) (PPRI), one in the Queensland Museum (Brisbane, Australia) (QM), and seven in the United States National Museum (Washington, D.C.) (USNM). The remaining 53 types were deposited in the California Academy of Sciences (CAS).

These taxa are listed below, alphabetically by specific name under each family. The receiving institutions are indicated by acronyms, and the specimens sent to the CAS have their new type number appended. Three specimens (*Bactropria brasiliensis* Kieffer, *Xyalopria ruficornis* Kieffer [both Hymenoptera: Diapriidae] and *Ganaspis reclusa* Kieffer [Hymenoptera: Eucilidae]) were missing from their pins and labels before their transfers.

¹ Authors' page charges were partially offset by a grant from the C. P. Alexander Fund, PCES.

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BRACONIDAE

- amelanchieri*, *Aphidius* Liu (1977). Holotype, female, pinned (missing abdomen and antennal segments).—CAS (#17035)
- amphorophori*, *Aphidius* Liu (1977). Holotype, female, pinned (missing abdomen and forewings).—CAS (#17036)
- lineatellae*, *Habrobracon* Fischer (1968). Holotype, female, pinned (missing antennal segments).—CAS (#17043)
- liriodendrii*, *Aphidius* Liu (1977). Holotype, female, pinned (missing abdomen).—CAS (#17037)
- lupini*, *Aphidius* Liu (1977). Holotype, female, pinned (missing abdomen and antennal segments).—CAS (#17038)
- masonaphis*, *Aphidius* Liu (1977). Holotype, female, pinned (tip of abdomen broken).—CAS (#17039)
- montereyensis*, *Aphidius* Liu (1977). Holotype, female, pinned (missing abdomen, 3 legs and 1 antenna; head mounted on point).—CAS (#17040)
- proia*, *Alysia* (*Anarcha*) Wharton (1988). Holotype, female, pinned (missing antennal segments).—CAS (#17033)
- pteridis*, *Aphidius* Liu (1977). Holotype, female, pinned (missing abdomen and 1 forewing).—CAS (#17041)
- vaccinii*, *Aphidius* Liu (1977). Holotype, female, pinned (missing 1 forewing and antenna, 1 antenna broken).—CAS (#17042)
- vespertina*, *Alysia* (*Anarcha*) Wharton (1988). Holotype, female, pinned.—CAS (#17034)

ICHNEUMONIDAE

- badius*, *Homotropus* Dasch (1964). Holotype, female, pinned.—CAS (#17032)
- labratus*, *Erromenus* (*Erromenus*) Townes & Townes (1949). Holotype, female, pinned.—CAS (#17031)

DIAPRIIDAE

- brasiliensis*, *Bactropria* Kieffer (1909a). Pin & label only, missing specimen!—CAS (#17051)
- ruficornis*, *Xyalopria* Kieffer (1909a). Pin & label only, missing specimen!—CAS (#17052)

SCELIONIDAE

- erythropus*, *Macroteleia* Cameron (1907). Holotype, male, pinned (missing abdomen).—CAS (#17047)
- paraensis*, *Macroteleia* Kieffer (1909a). Holotype, male, pinned (missing abdomen).—CAS (#17048)
- rufitarsis*, *Pentacantha* Kieffer (1906). Holotype, female, pinned (missing abdomen, wings in poor condition).—CAS (#17049)
- rufitarsis*, *Trissolcus* Kieffer (1906). Syntype, female, pinned (missing 3 legs and 1 antenna, head mounted on point).—CAS (#17050)

EUCOILIDAE

- clarimontis*, *Cothonaspis* (*Pentarhoptra*) Kieffer (1909b). Holotype, female, pinned.—CAS (#17045)

reclusa, *Ganaspis* Kieffer (1908). Pin and label only, missing specimen!—CAS (#17046)

striatipennis, *Caleucoela* Kieffer (1909b). Holotype, female, pinned.—CAS (#17044)

PERILAMPIDAE

hesperis, *Chrysomalla* Darling (1986). Holotype, female, pinned.—CAS (#17059)

ENCYRTIDAE

dahlsteni, *Avetianella* Trjapitzin (1971). Holotype, female, on slide.—CAS (#17065)

inconspicuus, *Anthemus* Doutt (1966). Holotype, female and allotype, male, on slides.—CAS (Holotype = #17064)

plethoricus, *Pentalitomastix* Caltagirone (1966). Holotype, female, on slide.—CAS (#17137)

saipanensis, *Anagyrus* Doutt (1952). Syntypes, female and male, on slides (specimens labelled on slides as holotype female and allotype male, but not so designated in the published description).—CAS (female = #17062)

smithi, *Anagyrus* Doutt (1952). Syntypes, female and male, on slides (specimens labelled on slides as holotype female and allotype male, but not so designated in the published description).—CAS (female = #17063)

tanytmemus, *Copidosomopsis* Caltagirone (1985). Holotype, female, on slide.—CAS (#17136)

APHELINIDAE

comperei, *Coccophagoides* Doutt (1966). Holotype, female, on slide.—CAS (#17060)

utilis, *Coccophagoides* Doutt (1966). Holotype, female and allotype, male on slides.—CAS (#17061)

EULOPHIDAE

glaber, *Pnigalio* Yoshimoto (1983). Holotype, female, pinned.—CAS (#17058)

TRICHOGRAMMATIDAE

anneckeii, *Xiphogramma* Doutt (1974a). Holotype, female and allotype, male, on slides.—PPRI

californica, *Paratrichogramma* Doutt (1973). Holotype, female and allotype, male, on slides.—CAS (#17073)

fletcheri, *Oligositoides* Doutt (in Doutt & Viggiani 1968). Holotype, female and allotype, male, on slides.—PPRI

kusaiensis, *Oligosita* Doutt (1955). Holotype, female, on slide.—USNM

occidentalis, *Chaetogramma* Doutt (1974a). Holotype, female and allotype, male, on slides.—CAS (#17072)

oceanica, *Oligosita* Doutt (1955). Holotype, female, on slide.—USNM

pacifica, *Lathromeris* Doutt (1955). Holotype, female, on slide.—USNM

pallida, *Epoligosita* Doutt (in Doutt & Viggiani 1968). Holotype, female, on slide.—PPRI

pretoriensis, *Chaetogramma* Doutt (1974a). Holotype, female, on slide.—PPRI

pretoriensis, *Paratrichogramma* Doutt (1973). Holotype, female and allotype, male, on slides.—PPRI

salutaris, *Brachygrammatella* Doutt (1968). Holotype, female and allotype, male on slides.—PPRI

MYMARIDAE

- annulatum*, *Stethynium* Doutt (1947). Holotype, female, on slide.—CAS (#17071)
australiensis, *Dahmsia* Doutt (1975). Holotype, female, on slide.—QM
clarkei, *Arescon* Doutt (1955). Holotype, female, on slide.—USNM
conferta, *Anaphoidea* Doutt (1949a). Holotype, female, on slide.—CAS (#17134)
enocki, *Dicopus* Doutt (1974b). Holotype, female, on slide.—CAS (#17067)
gerrisophaga, *Anaphoidea* Doutt (1949a). Holotype, female, on slide.—CAS (#17135)
flandersi, *Erythmelus* Doutt (1949b). Holotype, female and allotype, male on slides.—CAS (#17069)
gressitti, *Nesetaerus* Doutt (1955). Holotype, female, on slide.—USNM
medicae, *Barypolynema* Annecke & Doutt (1961). Holotype, female and allotype, male on slides.—CAS (#17066)
pygmaeus, *Dicopus* Doutt (1974b). Holotype, female and allotype, male on slides.—CAS (#17068)
rete, *Ptilomymar* Annecke & Doutt (1961). Holotype, female, on slide.—CAS (#17070)
saipanensis, *Lymaenon* Doutt (1955). Holotype, female and allotype, male on slide.—USNM

BETHYLIDAE

- bifoveatus*, *Dissomphalus* Kieffer (1906). Holotype, male, pinned.—CAS (#17053)
brasiliensis, *Dissomphalus* Kieffer (1909a). Holotype, male, pinned.—CAS (#17054)
brasiliensis, *Rhabdepyris* Kieffer (1909a). Holotype, male, pinned.—CAS (#17056)
paraensis, *Rhabdepyris* Kieffer (1909a). Holotype, male, pinned (missing 1 antennae).—CAS (#17057)
rufipalpis, *Dissomphalus* Kieffer (1910). Holotype, male pinned.—CAS (#17055)

ACKNOWLEDGMENT

Ken Hagen and Leo Caltagirone (of the Laboratory of Biological Control, University of California at Berkeley) provided immeasurable help in tracking down the appropriate literature and ensuring the completion of this project. Major improvements in the ms. were suggested by two anonymous reviewers. All the Kieffer specimens (Eucoilidae, Scelionidae, Diapriidae and Bethylidae) were originally obtained from Pomona College by R. L. Doutt.

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